## AMENDMENTS TO THE CLAIMS

1. (Currently amended) A method for amplifying a microRNA molecule to produce

DNA molecules, the method comprising the steps of:

(a) producing a first DNA molecule that is complementary to a target

microRNA molecule using primer extension with an extension primer comprising a first portion

having a length from 3 to 17 nucleotides selected to hybridize to a portion of the target

microRNA molecule and a second portion that hybridizes to the complement of a universal

forward primer; and

(b) amplifying the first DNA molecule to produce amplified DNA molecules

using the universal forward primer and a reverse primer, wherein the reverse primer is selected to

specifically hybridize to a portion of the first DNA molecule that is complementary to the target

microRNA molecule under defined hybridization conditions,

wherein the method comprises the use of at least one extension primer or reverse primer

selected from the group consisting of SEQ ID NO:2-499.

2. (Original) The method of Claim 1, wherein at least one of the universal forward

primer and the reverse primer comprises at least one locked nucleic acid molecule.

3-9. (Canceled)

10. (Original) A method of Claim 1 wherein the universal forward primer has a

length in the range of from 16 nucleotides to 100 nucleotides.

11. (Canceled)

12. (Original) A method of Claim 1 wherein the universal forward primer hybridizes

to the complement of the second portion of the extension primer.

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13. (Original) A method of Claim 2 wherein the universal forward primer comprises

at least one locked nucleic acid molecule.

14. (Original) A method of Claim 13 wherein the universal forward primer

comprises from 1 to 25 locked nucleic acid molecules.

15. (Canceled)

16. (Original) A method of Claim 2 wherein the reverse primer comprises at least

one locked nucleic acid molecule.

17. (Original) A method of Claim 16 wherein the reverse primer comprises from 1

to 25 locked nucleic acid molecules.

18. (Canceled)

19. (Original) A method of Claim 1 further comprising the step of measuring the

amount of amplified DNA molecules.

20. (Original) A method of Claim 1 wherein amplification is achieved by multiple

successive PCR reactions.

21. (Currently amended) A method for measuring the amount of a target microRNA

in a sample from a living organism, the method comprising the step of measuring the amount of

a target microRNA molecule in a multiplicity of different cell types within a living organism,

wherein the amount of the target microRNA molecule is measured by a method comprising the

steps of:

(1) producing a first DNA molecule complementary to the target microRNA

molecule in the sample using primer extension with an extension primer comprising a first

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portion having a length from 3 to 17 nucleotides selected to hybridize to a portion of the target microRNA molecule and a second portion that hybridizes to the complement of a universal forward primer;

- (2) amplifying the first DNA molecule to produce amplified DNA molecules using the universal forward and a reverse primer, wherein the reverse primer is selected to specifically hybridize to a portion of the first DNA molecule that is complementary to the target microRNA molecule under defined hybridization conditions; and
- (3) measuring the amount of the amplified DNA molecules; wherein the method is carried out using at least one extension primer or reverse primer selected from the group consisting of SEQ ID NO:2-499.
- 22. (Original) The method of Claim 21, wherein at least one of the universal forward primer and the reverse primer comprises at least one locked nucleic acid molecule.
- 23. (Original) The method of Claim 21, wherein the amount of the amplified DNA molecules are measured using fluorescence-based quantitative PCR.
- 24. (Original) The method of Claim 21, wherein the amount of the amplified DNA molecules are measured using SYBR green dye.

25-42. (Canceled)